

ABSTRACT

Structure, system, apparatus, method, and computer program for managing and configuring a computer storage system and which are well suited for managing and configuring array controllers in a storage subsystem by mapping the topology and connectivity of all servers, storage devices, and storage device controllers within the storage subsystem, based on unique identifiers especially WWN identifiers. A method for collecting connection information for a computer system having a server, at least one device controller coupled to the server, and a client coupled with the server. The method includes querying the server to identify host bus adapters coupled to it, querying each host bus adapter to identify attached device controllers, issuing a read connection information command to the device controller and returning the connection results including identifying devices coupled to the device controller, and storing the returned connection results in a data structure. In one embodiment, the connection results include a server identifier, a host bus adapter identifier corresponding to the server, and a device controller identifier, and the data structure comprises a server identification table and at least one host bus adapter connection table associated with a particular host bus adapter. In other aspects, the invention includes a computer program in the form of computer software and/or computer firmware implementing the inventive procedures and method, a computer program product storing the inventive computer program in tangible form, a device controller utilizing the structure and method of the invention, and a computer system incorporating the inventive mapping method.